International Standard



105/F

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEX ANA OPPAHAS OF A HASALUR TO CTAH APT USALUMORGANISATION INTERNATIONALE DE NORMALISATION

Textiles — Tests for colour fastness — Part F : Standard adjacent fabrics

Textiles - Essais de solidité des teintures - Partie F : Tissus témoins

Second edition – 1982-09-01 Teh STANDARD PREVIEW (standards.iteh.ai)

<u>ISO 105-F:1982</u> https://standards.iteh.ai/catalog/standards/sist/23531516-3db0-423c-8e68-86bf6083e086/iso-105-f-1982

Descriptors : textiles, dyes, tests, colour fastness, visual inspection, staining of colour, reference sample.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 105/F was developed by Technical Committee ISO/TC 38, Textiles. (standards.iteh.ai)

NOTE – International Standard ISO 105 is presented in the form of parts. Each of these parts corresponds to a group and is split up into its different component sections. This form facilitates the replacement of existing sections by successive editions as necessary indards/sist/23531516-3db0-423c-8e68-

86bf6083e086/iso-105-f-1982

Sections F02, F03, F04, F05 and F06, contained in this second edition of part F of ISO 105, were circulated to the member bodies in December 1979 and complete section F01-1978.

This part of ISO 105 cancels and replaces group F of ISO 105-1978.

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Textiles — Tests for colour fastness — Specification for standard adjacent fabric : Wool F01

Scope and field of application 1

This specification is intended to establish an undyed pure wool adjacent fabric which may be used for the assessment of staining in colour fastness test procedures. The standard wool adjacent fabric exhibits standardized staining properties.

2 Principle

For testing the standardized staining properties, two water fastness tests and also a wash test carried out at 50 °C are conducted on two composite specimens made from a dyed master fabric and a cotton adjacent fabric with

- a) the wool fabric under test, and
- b) a sample of the master standard wool adjacent fabric.

Staining is then assessed using the grey scale for assessing staining. 86bf6083e086/iso-

standard

ISO 105

4.4

(see 6.3).

3 References

ISO 105 :

Section A01, General principles of testing.

Section A03, Grey scale for assessing staining.

Section C02, Colour fastness to washing : Test 2.

Section E01, Colour fastness to water.

ISO 3072, Wool - Determination of solubility in alkali.

Apparatus and reagents

Apparatus and reagent, as specified in section E01. 4.1

5 Characteristics of the fabric

(Colour Index, 3rd Edition).

(Colour Index, 3rd Edition).

(Colour Index, 3rd Edition).

Choose a fabric having technical characteristics as similar as possible to those of the master standard adjacent fabric.

4.2 Apparatus and reagents, as specified in section C02.

For first dyed master fabric - 1,5 % CI Direct Red 16

For second dyed master fabric - 3 % CI Acid Red 42

For third dyed master fabric - 2 % Cl Acid Red 42

4.5 Samples of master standard wool adjacent fabric

4.3 Grey scale for assessing staining (see clause 3).

5.1 Composition and construction

The standard wool adjacent fabric is a wool cloth of mass per unit area 125 + 5 g/m². It consists of a plain weave cloth with an even and smooth surface made of pure wool fibres. After wetting and tensionless drying, a sample shall remain flat. It shall be free from finishes, residual chemicals, and chemically damaged fibres.

5.2 Staining properties

As adjacent fabrics shall yield exact and reproducible assessments, their most important property is standardized staining characteristics during colour fastness tests. Dyed master fabrics are set up, whose staining properties in specified fastness tests are defined. Staining characteristics of the wool adjacent fabrics shall conform to those of the dyed master fabric.

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5.2.1 Dyed master fabrics to be subjected to the colour fastness tests

a) First dyed master fabric : 1,5 % CI Direct Red 16 (Colour Index, 3rd Edition) dyed on a specified cotton adjacent fabric (see 6.2.1). This dyeing is intended for the water fastness test method [see 5.2.2 a)].

b) Second dyed master fabric : 3 % CI Acid Red 42 (Colour Index, 3rd Edition) dyed on a specified wool adjacent fabric (see 6.2.2). This dyeing is intended for the water fastness test method [see 5.2.2 a)].

c) Third dyed master fabric : 2 % CI Acid Red 42 (Colour Index, 3rd Edition) dyed on a specified wool adjacent fabric (see 6.2.3). This dyeing is intended for the washing test 2 (50 °C) [see 5.2.2 b)].

5.2.2 Colour fastness test methods employed for assessing the staining properties

The staining properties of the standard wool adjacent fabric are determined by the following test methods :

In order to test the wool fabric, which is prepared as described

in 6.1 and which is intended to be used as a specified wool adjacent fabric, a dved master fabric (see 5.2.1) is placed be-

tween the wool fabric to be tested and a cotton adjacent fabric. For comparison, another composite specimen is made by using

a sample of the master wool adjacent fabric. Both composite

The staining of the wool adjacent fabrics shall yield the following assessment, measured by the grey scale for assessing stain-

a) water fastness test with the first dyed master fabric : 3;

b) water fastness test with the second dyed master

c) washing test 2 (50 °C) with the third dyed master

Test assessment of the staining shall not differ by more than

The change of colour of the dyed master fabric and the staining

specimens are tested according to 5.2.2.

5.2.4 Results of the staining during the tests

6 Notes

6.1 Production of the standard wool adjacent fabric

6.1.1 Raw material for warp and weft

Australian Merino wool — Mean fibre diameter in the range 18,5 to 19,7 μ m = 74 s British fineness washed in weak alkali.

Staple length 50 to 70 mm.

6.1.2 Yarn, warp and weft identical

15,6 tex \times 2 worsted.

Spin twist : 620 t/m.

Yarn twist : 600 t/m.

a) water fastness test according to section E01; TANDA Remulsified groundnut oiling agent).

b) washing test 2 (50 °C) according to section co2. Steam treatments of single yarn and after twisting : mild and uniform in respect of the charge and the duration of steam treatment and conditions for the whole batch.

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5.2.3 Test specimens

mens https://standards.iteh.ai/catalog/standardsProduction_samples_of_the_yarn_shall be tested to determine 86bf6083e086/iso_compliance with the following requirements :

pH value of the aqueous extract at 20 °C : 9,5 \pm 0,2;

fat content : 0,6 \pm 0,2 %.

Staining in the water fastness test according to 5.2.2 a) should be 3 or 3-4, i.e. similar or somewhat less than master standard adjacent fabric.

Alkali solubility shall not exceed 18 % (determined by the method in ISO 3072).

6.1.3 Grey goods

Weave 1/1 plain.

Number of threads

warp 210 \pm 5 per 10 cm

weft 180 \pm 5 per 10 cm

weaving without sizing.

Staining after washing according to 6.1.4 in water fastness test [see 5.2.2 a)] should be 3-4.

Fat content : 0,5 \pm 0,2 %.

ing (see 6.3) :

fabric : 2-3;

fabric : 3-4.

half a step from those specified.

of the cotton adjacent fabric are neglected.

-

6.1.4 Finishing

No singeing.

Continuous washing, for example with the Vibrotex (Kuesters, Krefeld) using non-ionic detergent, pH 8,5 to 8, temperature 45 °C, time in the washing liquor about 2 min.

Continuous rinsing until pH 6,5 to 7,5 is reached.

Continuous hot water fixation, for example with the "Conticrab" machine (Monforts, Moenchengladbach), the goods being passed through a hot water tank at 80 °C and then passed over a heated drum at 90 °C below a rubber cloth. Time on the heated drum about 100 s; pH of the water at 80 °C, 6,5 to 7,5.

Mild drying, with 6 % over feed at 80 °C, for example with a Famatex jet dryer, speed 20 m/min.

Shearing on both sides, for example with a hollow bed shearing machine (Ateliers Raxhon, Belgium).

Stain removal with perchloroethylene.

Straightening on a stenter frame with gentle steaming.

Degree of whiteness according to Stephanson ANDA

 $W = 2B - A = 2R_z - R_x$ (Standards This master sample is dyed in the same manner as given in 6.2.2 but using 2 % Acid Red 42 (Colour Index, 3rd Edition) instead

Standard source D_{65} . CIE 1931 standard observer. White of 3 %. Standard : absolute White. Thickness of material : $\frac{95}{16}$ The standards/sist/23531516-3db0-423c-8e68-value should be 43 ± 1. 86bf6083c086/iso-165 f 100 standard and dve

For visual assessment the specimen should be compared with the master standard.

The pH value of the aqueous extract should be 8,0 \pm 0,5. The residual fat content : 0,4 \pm 0,1 % (determined by IWTO-method 10-62 edition 1966).

The alkali solubility shall not exceed 18 % (determined by the method in ISO 3072).

6.2 Production of the dyed master samples (see 5.2.1)

6.2.1 1,5 % CI Direct Red 16 (Colour Index, 3rd Edition) dyed on a specified cotton adjacent fabric [see 5.2.1 a)]

A wetted-out pattern of the cotton fabric is entered at 30 $^{\circ}\text{C}$ into a dye-bath containing 1,5 % CI Direct Red 16 (Colour

Index, 3rd Edition) and 20 % sodium sulphate decahydrate (Na₂SO₄,10H₂O), all percentages being calculated on the mass of the cotton fabric, at a liquor ratio of 20 : 1.

Within 20 min the dye-bath is raised to 60 °C and the fabric is dyed for 60 min at this temperature. The dye-bath is discharged and the dyeing rinsed with cold running tap-water until the water is completely colourless. The dyed fabric is then dried.

6.2.2 3 % CI Acid Red 42 (Colour Index, 3rd Edition) dyed on a specified wool adjacent fabric [see 5.2.1 b)]

A wetted-out pattern of the wool fabric is entered at 40 °C into a dye-bath containing 3 % CI Acid Red 42 (Colour Index, 3rd Edition), 10 % sodium sulphate decahydrate ($Na_2SO_4.10H_2O$), and 4 % sulphuric acid (96 %), all percentages being calculated on the mass of the wool pattern at a liquor ratio of 40 : 1.

The dye-bath is raised to the boil within 30 min, and boiled for a further 60 min. The dye-bath is then cooled down by addition of cold water. The pattern is removed, rinsed in cold running tap-water and dried.

6.3¹ Master standard and dyed master standard

6.2.3 2 % CI Acid Red 42 (Colour Index, 3rd Edition) dyed on a specified wool adjacent fabric [see 5.2.1 c)]

Samples of the master standard wool adjacent fabric and the dyed master standards are available from

Beuth-Vertrieb GmbH Burggrafenstrasse 4-7 D-1000 Berlin 30 Germany.

The master standard wool adjacent fabric may also be obtained from

Society of Dyers and Colourists P.O. Box 244, Perkin House 82 Gratton Road Bradford BD1 2JB West Yorks United Kingdom.

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<u>ISO 105-F:1982</u> https://standards.iteh.ai/catalog/standards/sist/23531516-3db0-423c-8e68-86bf6083e086/iso-105-f-1982

Textiles — Tests for colour fastness —

Specification for standard adjacent fabric : F02 Cotton and viscose

Scope and field of application 1

This specification is intended to establish undyed cotton and viscose adjacent fabrics which may be used for the assessment of staining in colour fastness test procedures. The standard cotton and viscose adjacent fabrics exhibit standardized staining properties.

2 Principle

For testing the standardized staining properties, a wash fastness test carried out at 40 °C is conducted on a composite specimen made from a dyed master fabric, a standard adjacent fabric and an adjacent fabric under test. Upon completion of the test the staining of the two adjacent fabrics is evaluated using the grey scale for assessing change in colourndards.iteh.al) As adjacent fabrics shall yield exact and reproducible

3 References

ISO 105 :

https://standards.iteh.ai/catalog/standards/s 86bf6083e086/iso-

ISO 105-F:1

Section A01, General principles of testing.

Section A02, Grey scale for assessing change in colour.

Section C01, Colour fastness to washing : Test 1.

Apparatus and reagents

4.1 Apparatus and reagents, as specified in section C01.

4.2 Reference dye : CI Direct Blue 1, applied to standard cotton adjacent fabric (see 6.2).

4.3 Grey scale for assessing change in colour (see clause 3).

4.4 Samples of master standard cotton and viscose adjacent fabrics (see 6.3).

Characteristics of the fabric 5

Choose a fabric having technical characteristics as similar as possible to those of the master standard adjacent fabric.

Composition and construction 5.1

The standard cotton adjacent fabric is a cotton cloth of mass per unit area 115 \pm 5 g/m² and the standard viscose adjacent fabric is a viscose cloth of mass 140 \pm 5 g/m². They consist of plain weave cloths with even and smooth surfaces made of pure cotton or viscose fibres. After wetting and tensionless drying, samples shall remain flat. They shall be free from finishes, residual chemicals, and chemically damaged fibres.

5.2 Staining properties

assessments, their most important property is standardized staining characteristics during colour fastness tests. Dyed master fabrics are set up, whose staining properties in specified fastness tests are defined. Staining characteristics of the cotton and viscose adjacent fabrics shall conform to those of the dyed master fabrics.

5.2.1 Dyed master fabrics to be subjected to the colour fastness test

Dyed master fabric : CI Direct Blue 1 (Colour Index, 3rd Edition) dyed on a specified cotton adjacent fabric (see 6.2).

5.2.2 Colour fastness test method employed for assessing the staining properties

The staining properties of the standard cotton and viscose adjacent fabrics are determined by washing test 1 (40 °C) according to section C01.

5.2.3 Test specimens

In order to test the cotton and viscose fabrics, which are prepared as described in 6.1 and which are intended to be used as specified cotton and viscose adjacent fabrics, a dyed master

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fabric (see 5.2.1) is placed between the cotton or viscose fabric to be tested and a cotton adjacent fabric. To eliminate possible differences in test conditions, both the standard adjacent fabric and the adjacent fabric under test are used in the same composite specimen.

5.2.4 Results of the staining during the tests

The colour difference between the stain of the standard adjacent fabric and that on the fabric under test is evaluated using the grey scale for assessing change in colour. The fabric under test is acceptable for its staining properties when the colour difference between the staining of the standard and that of the adjacent fabric under test is not greater than 4-5.

6 Notes

6.1 Production of the standard cotton and viscose adjacent fabrics

- 6.1.1 Yarn
 - a) Cotton

warp: 16,5 tex 820 weft : 14 tex 900

b) Viscose

warp : 20 tex 740 weft : 33 tex 700

The yarn shall not contain fluorescent brighteners. No warp sizing material shall be present.

6.1.2 Loomstate fabric

a) Cotton

Plain weave 1/1

Number of threads

warp 35 per cm weft 31 per cm

b) Viscose

Plain weave 1/1

Number of threads

warp 28 per cm weft 22 per cm

6.1.3 Finished fabric

Degree of whiteness : 70 \pm 5, measured on a reflectometer (whiteness formula : L + 3A - 3B)

Other cotton and viscose fabrics having the same staining characteristics may be used.

Standard source D₆₅

CIE 1931 standard observer

White Standard: absolute White

Production of the dved master fabric 6.2

iTeh STANDARD PREVIEW The fabric is desized, scoured and bleached in such a manner (standar $time of less than 3 s and a pH of 7,0 <math>\pm$ 0,5. as to obtain the characteristics given in 6.1. It shall have a wet-

ISO 106.3:19St and ard cotton and viscose adjacent fabrics https://standards.iteh.ai/catalog/standandsidyed3masterlfabric-8e68-

86bf6083e086/iso-105-f-1982 These are available from

Centre de Recherches Textiles de Mulhouse 185, rue de l'Illberg F-68093 Mulhouse Cedex France

and

Association pour la détermination de la solidité des teintures 12, rue d'Anjou F-75008 Paris France.

Textiles — Tests for colour fastness —

F03 Specification for standard adjacent fabric : Polyamide

1 Scope and field of application

This specification is intended to establish an undyed polyamide adjacent fabric which may be used for the assessment of staining in colour fastness test procedures. The standard polyamide adjacent fabric exhibits standardized staining properties.

2 Principle

For testing the standardized staining properties, a wash fastness test carried out at 50 °C is conducted with a composite specimen made from a dyed master fabric, a standard adjacent fabric and an adjacent fabric under test. Upon completion of the test the colour difference between the two adjacent fabrics is evaluated using the grey scale for assessing change in colour.

5 Characteristics of the fabric

Choose a fabric having technical characteristics as similar as possible to those of the master standard adjacent fabric.

5.1 Composition and construction

The standard polyamide adjacent fabric is a polyamide cloth of mass per unit area 130 \pm 5 g/m². It consists of a plain weave cloth with an even and smooth surface made of 100 % polyamide fibres. After wetting and tensionless drying, a sample shall remain flat. It shall be free from finishes, residual chemicals, and chemically damaged fibres.

As adjacent fabrics shall yield exact and reproducible assessments, their most important property is standardized staining characteristics during colour fastness tests. Dyed

ISO 105-F:1002 refabrics are set up, whose staining properties in specified

K 5.2 Staining properties

3 References

ISO 105 :

https://standards.iteh.ai/catalog/standards/sfasthess1tests_arb(defined&Staining characteristics of the poly-86bf6083e086/iso- amidejadjacent fabric shall conform to those of the dyed master fabric.

Section A01, General principles of testing.

Section A02, Grey scale for assessing change in colour.

Section C02, Colour fastness to washing : Test 2.

4 Apparatus and reagents

4.1 Apparatus and reagents, as specified in section C02.

4.2 Grey scale for assessing change in colour (see clause 3).

4.3 Reference dye, CI Acid Red 151, applied to standard adjacent fabric (see 6.2).

4.4 Samples of master standard polyamide adjacent fabric (see 6.3).

5.2.1 Dyed master fabric to be subjected to the colour fastness test

Dyed master fabric : CI Acid Red 151 (Colour Index, 3rd Edition) dyed on a specified polyamide adjacent fabric (See 6.2).

5.2.2 Colour fastness test method employed for assessing the staining properties

The staining properties of the standard polyamide adjacent fabric are determined by washing test 2 (50 $^{\rm o}{\rm C}$) according to section C02.

5.2.3 Test specimens

In order to test the polyamide fabric, which is prepared as described in 6.1 and which is intended to be used as a specified polyamide adjacent fabric, a dyed master fabric (see 5.2.1) is placed between the polyamide fabric to be tested and a stan-

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